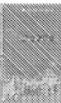


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... high speed switching and/or modulation of optical ... at the central rib of the aforesaid  
 2X2 "X" switch ... 16, the light transmitting doped semiconductor waveguide 1 ...

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... in, for example, the interferometric X-switch discussed above ... may be called a  
 metal-oxide-semiconductor (MOS)-gate controlled DIFET lightwave modulator ...

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 A Donaldson - J. Phys. D: Appl. Phys., 1991 - iop.org

... has been demonstrated [7]. If we go back to equation (2) we can look at the possibilities for modulation in semiconductor crystals such as gallium arsenide. ...

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[InGaAs-InAlAs quantum well intersecting waveguide switch operating at 1.55 μm](#) - all 4 versions »

JE Zucker, KL Jones, GR Jacobovitz, B Tell, K ... - [Photonics Technology Letters, IEEE, 1990 - ieexplore.ieee.org](#)  
 ... quantum wells provides a large modulation of refractive ... monolithic integration with  
 other semiconductor devices, it ... changes necessary for the X-switch geometry ...

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S Su, I. Jou, J Lenari - [Communications Magazine, IEEE, 1995 - ieexplore.ieee.org](#)  
 ... or PCM modulation technique; to date, almost all of the digital central office ... FDB)  
 lasers [33-35] and cleaved-coupled-cavity (C\*) semiconductor laser [36 ...

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[Light Modulation with Silicon Devices](#) - all 2 versions »

A Iarocci, G Breglio, M Iodice, A Cutolo, VP ... - [Silicon Photonics, 2004 - books.google.com](#)  
 ... optic coefficient of an indirect gap semiconductor can be ... an all-silicon waveguide  
 hosts a X-switch, driven by a ... if the subject is not a modulator in strictly ...

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 ... the performance of LiNbO<sub>3</sub> devices is superior to comparable semiconductor electrooptic ... intensity modulators with a beyond-10-GHz modulation bandwidth and ...

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[Ti:LiNbO<sub>3</sub> 3 interferometric activated X-switch for high-speed applications: IAX](#) - all 3 versions »

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 ... Nonlinear and chaotic dynamics of semiconductor laser devices ... NEYER, A.;  
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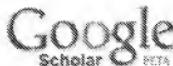
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KA Shore, MW McCall, A Asgharzadeh - [Electronics Letters, 1988 - ieexplore.ieee.org](#)  
 ... at as a function of modulation frequency? Discussion ... and chaotic dynamics of  
 semiconductor laser devices ... Ti: LiNbO<sub>3</sub> INTERFEROMETRIC ACTIVATED X-SWITCH FOR HIGH ...  
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B Castagnolo, M Rizzi - [Fiber and Integrated Optics, 2001 - informaworld.com](#)  
 ... scattering losses as the X switch, interference, and ... A new intensity GaAs electrooptic  
 modulator realized by ... method: application to semiconductor rib waveguide ...  
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 ... coupling via evanescent field overlap, gratings, cross-phase modulation, etc ...  
 non-linear directional coupler, the distributed feedback gratings, the X-switch, ...  
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Y Silberberg - US Patent 4,775,207, 1988 - Google Patents  
 ... 3 OTHER PUBLICATIONS "Electro-optic X-Switch Using Single ... lithium tantalate or from  
 semiconductor materials such ... Optic Y-Junction Modulator/Switch", Electronics ...  
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 ... their attention on III-V compound semiconductor materials [2 ... talk at zero bias, low  
 modulation efficiency and ... input waveguide branch of the X-switch, both modes ...  
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 ... ing, and have experimentally demonstrated the X switch based on ... WID's presented here  
 use cross-gain modulation (XGM) in semiconductor optical amplifiers ...  
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MK Chin - Lightwave Technology, Journal of, 1993 - ieeexplore.ieee.org  
 ... The principle of a Ah- switch is the modulation of the coupling length by the ... In  
 the case of semiconductor materials with a pin diode structure, although a ...  
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[Integrated optics in LiNbO<sub>3</sub>: recent developments in devices for telecommunications - all 5 versions >](#)

L Thylen - Lightwave Technology, Journal of, 1998 - ieeexplore.ieee.org  
 ... X-switch with no applied voltage, and (b) with 25 V applied ... in high speed ap- plications,  
 such as when connecting a laser diode to an external modulator or with ...  
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[Advances in efficient optical links to enhance desktop multimedia processor systems - all 3 versions >](#)

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 ... important to provide all optical modulation/switiching using ... from semiconductor laser  
 into GaAs optical switch. ... from different arms of the X-switch were coupled ...  
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 ... life test for InGaAsP EA modulator module," in ... a different optical wavelength using  
 a semiconductor optical amplifier ... g. ? switch port 1 h. X switch port 1 i ...  
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[Time alarm system in detecting scanner/step module tilt](#)

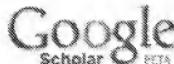
RH Hsieh, JL Shyr, WH Wu - 2004 - firepatentsonline.com  
 ... Assignee: Taiwan Semiconductor Manufacturing Company ... Preferably, the X-switch 130  
 and the Y-switch 180 are ... is turned ON to drive a buzzer modulator circuit 248 ...  
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[JP Lorenzo, RA Soref - US Patent 4,877,299, 1989 - Google Patents](#)

... favorable to very high speed switching and/or modulation of optical signals passing ...

FIGS. 1a and 1b, the light transmitting doped semiconductor waveguide 1 ...

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... Typically an all-optical response is obtained by using ... field overlap, gratings, cross-phase modulation, etc., the distributed feedback gratings, the X-switch, etc ...

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### Optical modulation apparatus and measurement method - all 2 versions >

[W Lukasz - US Patent 5,091,983, 1992 - Google Patents](#)

... mfi man f LINb ^ ^ and m f v semiconductor ... 6 through the resulting time dependent distance changes Ad(t), an intensity modulation of the optical wave 3c is ...

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[W De Zhong, JPR Lacey, RS Tucker - Lightwave Technology, Journal of, 1996 - ieeexplore.ieee.org](#)

... examples of WID's presented here use cross-gain modulation (XGM) in semiconductor optical amplifiers (SOA's) [111, [121] ...

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[E Voges, A Neyer - Lightwave Technology, Journal of, 1987 - ieeexplore.ieee.org](#)

... is superior to comparable semiconductor elec- troptic ... The electrical-optical overlap factor, which determines the required modulation voltage, must ...

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### Optical frequency generator - all 4 versions >

[C von Helmolt, U Krueger - US Patent 6,008,931, 1999 - Google Patents](#)

... as auto phase modulation, cross phase modulation and four ... the light output of the semiconductor laser 26 ... frequency control 6 of the optical frequency generator ...

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### Electro-optical switch - all 4 versions -

[Y Silberberg - US Patent 4,775,207, 1988 - Google Patents](#)

... or lithium tantalate or from semiconductor materials such ... Electro-Optic Y-Junction Modulator/Switch", Electronics ... 3: "Experimental 4x4 Optical Switching Network ...

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[A Donionov - J. Phys. D: Appl. Phys, 1991 - iop.org](#)

... making a permanent optical waveguide in a potassium niobate substrate (for ... we can look at the possi- bilities for modulation in semiconductor crystals such ...

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### Silicon double-injection electro-optic modulator with insulated-gate and method of using same - all 2 versions >

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... 26. An optical phase modulator comprising: (a) first and second carrier injection means formed with a semiconductor light propagating waveguide for ...

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### A photonic wavelength-division switching system using tunable laserdiode filters - all 5 versions >

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... a WD switching system using semiconductor tunable wavelength ... The output optical signal from the tunable wavelength ... to an optically controlled modulator and is ...

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Development on guided-wave switch arrays - all 10 versions »

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... switch array [73]-[75] involving an SOA as a ... A low DC-drift Ti:LiNbO<sub>3</sub> modulator as-sured ... and I. Mito, "First 8×8 semiconductor optical matrix switches ...

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Analysis of reflection-type optical switches with intersecting waveguides - all 5 versions »

J Nayyer, Y Suenatsu, K Shimomura - Lightwave Technology, Journal of, 1988 - ieeexplore.ieee.org ... Therefore, the device is believed to be a good candidate to serve also as an optical external modulator. Fig. 6 shows the characteristic scattering loss versus ...

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T Pohlmann, A Neyer, E Vingas - Lightwave Technology, Journal of, 1989 - ieeexplore.ieee.org

... 6. Low-frequency modulation characteristic of IAX switch ... 7. High-frequency optical transmission characteristic 3 ... a new interferometric ac- tivated X switch for X ...

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InGaAs-InAlAs quantum well intersecting waveguide switch operating at 1.55 μm - all 4 versions »

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SK Mchappa, WC Tait - US Patent 5,299,454, 1994 - Google Patents

... a videodisc player/recorder comprising a semiconductor laser array ... tracks and aligns the optical head (not shown) onto a in a cut-off modulator is the electro ...

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A review on classification of optical switching systems - all 2 versions »

S Gu, L Jou, J Lenart - Communications Magazine, IEEE, 1996 - ieeexplore.ieee.org

... PCM modulation technique; to date, almost all of ... For demultiplexing, devices such as optical modulators [30 ... cleaved-coupled-cavity ("C") semiconductor laser [36 ...

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Reconfigurable multi-wavelength optical correlator for header-based switching and routing

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... test for InGaAs EA modulator module," in ... a different optical wavelength using a semiconductor optical amplifier (SOA) ... setup of the optical correlator-based ...

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... effect have been demonstrated in semiconductor structures [9 ... the lateral dimension and the optical confinement is ... direction suggests that K modulation may be ...

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... Systems 5R50 lock-in amplifier, a Tektronix ... Ti: LiNbO<sub>3</sub> interferometric activated

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**Electrically controlled integrated optical switch - all 8 versions »**

RA Soref, JP Lorenzo - US Patent 4,746,183, 1988 - Google Patents

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... [54] OPTICALLY CONTROLLED INTEGRATED OPTICAL SWITCH [75] Inventors: Richard A Soref, NewtonCentre; Joseph P. Lorenzo, Stow, both of Mass. ... 15 the switch. ...

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... 2x2 "X" waveguide switches of 25 the two-mode interference type have a waveguide in the mid-region of the switch whose dimensions are large enough to propagate ...

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... described. Other re-lated applications include "Electrically Controlled Inte-50 grated Optical Switch" (Richard A. Soref) Ser. No. ...

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JL Lorenzo - US Patent 5,802,312, 1998 - Google Patents

... calibration document 21 (the document to be run) is placed between the light emitter 12 and the light detector 14, and the calibrate push-button switch 22 (for ...

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M Carena, JS Conway, HE Haber, JD Hobbs, M Albrow, ... - Arxiv preprint hep-ph/0010338, 2000 - ioppp.su-tokyo.ac.jp

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hep-ph/0010338 October 31, 2000 Report of the Tevatron Higgs Working Group Marcela

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Simultaneous Ordering of Holes and Spins in La<sub>2</sub>NiO<sub>4</sub> (4.125) - all 4 versions »

JM Tranquada, DJ Buttrey, V Sachan, JE Lorenzo - Physical Review Letters, 1994 - APS

We report a single-crystal neutron diffraction study of the incommensurate

magnetic ordering that occurs in La<sub>2</sub>NiO<sub>4</sub> 4.125 below 110 K. Besides the

magnetic first and third harmonic Bragg peaks, we have also observed second ...

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K Herlap, DE Cox, JE Lorenzo, G Shirane, JM... - Physical Review Letters, 1994 - APS

The dimerization of the Cu ions in the spin-Peierls state of CuGeO<sub>3</sub> below 14 K

has been determined by neutron-diffraction measurements. In addition to

superlattice reflections with indices  $h/2k/l/2$  ( $h, k, l$ , all odd) ...

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SK Lee, JA Lorenzo - Endocrinology, 1999 - Endocrine Soc

We studied the effects of PTH on the expression of tumor necrosis factor-related

activation-induced cytokine (TRANCE), osteoprotegerin (OPG), and receptor

activator of NF B (RANK) messenger RNA (mRNA) in cultured murine bone ...

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Paclitaxel Resistance in Non-Small-Cell Lung Cancer Associated With Beta-Tubulin Gene Mutations - all 5 versions »

M Monzo, R Rossell, JJ Sanchez, JS Lee, AO'Brate, ... - Journal of Clinical Oncology, 1999 - jco.ascopubs.org

**PURPOSE:** The mechanisms that cause chemoresistance in non-small-cell lung

cancer (NSCLC) patients have yet to be clearly elucidated. Paclitaxel is a

tubulin-disrupting agent that binds preferentially to beta-tubulin. ...

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Cooperative ordering of holes and spins in La<sub>2</sub>NiO<sub>4</sub> (4.125) - all 4 versions »

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La<sub>2</sub>NiO<sub>4</sub> 4.125 exhibits a cooperative ordering of dopant-induced holes and Ni

spins below a transition temperature of 110 K. There is also an ordering of

interstitial oxygens that occurs near room temperature. We present a ...

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RET alternate splicing influences the interaction of activated RET with the SH 2 and PTB domains of ... - all 3 versions »

MJ Lorenzo, GD Gish, C Houghton, TJ Stonehouse, T... - Oncogene, 1987 - nature.com

Activating germline mutations of the RET receptor tyrosine kinase are found in

the majority of cases of inherited cancer syndrome MEN 2, and inactivating

mutations in some cases of dominantly inherited Hirschsprung disease. Using ...

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Soft longitudinal modes in spin-singlet CuGeO<sub>3</sub> - all 5 versions »

JE Lorenzo, K Hirota, G Shirane, JM Tranquada, M... - Physical Review B, 1994 - APS

We present results from a neutron-scattering study of lattice anomalies

associated with the transition to the gapped spin-singlet state observed in the

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F Glover, R Glover, J Lorenzo, C McMillan - Interfaces, 1992

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Oxygen intercalation, stage ordering, and phase separation in La<sub>2</sub>NiO<sub>4+δ</sub> with 0.05 ≤ δ ... - all 4 versions »

JM Tranquada, Y Kong, JE Lorenzo, DJ Buttrey, DE... - Physical Review B, 1994 - APS

We report neutron diffraction studies on a series of La<sub>2</sub>NiO<sub>4+δ</sub> delta single

crystals with 0.05 < δ < 0.11. At 300 K, all of the crystals have an

average tetragonal structure (space group I4/mmm). On cooling below 290 K, ...

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R Soref

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JP Lorenzo, RA Soref - Applied Physics Letters, 1987 - [link.aip.org](#)

1.3  $\mu\text{m}$  electro-optic silicon switch [Applied Physics Letters 51, 6 (1987)].

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RA Soref, JP Lorenzo - US Patent 4,748,183, 1988 - Google Patents

... Soref,NewtonCentre, Joseph P. Lorenzo, Stow, both of ... Secondly, the silicon material does not exhibit ... Pockels effect, but instead utilizes other electro-optical ...

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